1.3 **What is Ethereum?**

**From a Computer Science Prospective:**

Ethereum is a deterministic (**Everything is well defined not the predictable** **and random**) but practically unbounded (It can scale as much as you want to deploy to many others machine) state machine, consisting of a globally accessible singleton and a virtual machine that applies changes to that state.

🡺Most important Feature of Ethereum is Singleton (The information about the implementation of all the things have the single state and its globally distributed.)

Ethereum is also called the world computer because the information (state) present on one node also present on all other nodes.

**From a Computer Practical Prospective:**

Ethereum is an open source, globally **decentralized** computing infrastructures that executes programs called **smart** **contracts**. It uses a blockchain to synchronize and store the system state change, along with the cryptocurrency called **ether** to meter constrain execution resource costs.